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1 Papers: infrastructure for ubicomp: User interfaces when and where they are needed: ⊟
an infrastructure for recombinant computing
Mark W. Newman, Shahram Izadi, W. Keith Edwards, Jana Z. Sedivy, Trevor F. Smith
October 2002 **Proceedings of the 15th annual ACM symposium on User interface software and technology**

Full text available: 📄 pdf(673.34 KB)   Additional Information: full citation, abstract, references, citings, index terms

Users in ubiquitous computing environments need to be able to make serendipitous use of
resources that they did not anticipate and of which they have no prior knowledge. The
Speakeasy recombinant computing framework is designed to support such ad hoc use of
resources on a network. In addition to other facilities, the framework provides an
infrastructure through which device and service user interfaces can be made available to
users on multiple platforms. The framework enables UIs to be provided ...

Keywords: asynchronous user interfaces, recombinant computing, speakeasy, ubiquitous
computing

2 An Introduction to Using Linux as a Multipurpose Firewall   ⊟
Jeff Regan
March 2000 **Linux Journal**

Full text available: 📄 html(39.30 KB)   Additional Information: full citation, abstract, references

Feeling insecure? Here's a guide for getting the protection you need.

3 Putting OSX in an open access lab: (or "The Joy of X")   ⊟
David L. R. Houston
September 2003 **Proceedings of the 31st annual ACM SIGUCCS conference on User services**

Full text available: 📄 pdf(211.45 KB)   Additional Information: full citation, abstract, index terms

This paper discusses the challenges of putting Apple Macintosh OSX into open access and
computer lab environments.

Keywords: Macintosh, OSX, configuration, imaging, integration, lab, labs, maintenance,
open access, security, software distribution, workstation

4 A companion technology approach to CS1: handheld computers with concept   ⊟
visualization software
James Allert

Full text available: 📄 pdf(723.79 KB)   Additional Information: full citation, abstract, references, citings, index terms

All incoming freshmen majoring in computer science at the University of Minnesota Duluth (UMD) are required to purchase a handheld computer with wireless capability (HP/Compaq IPAQ). The integration of these devices into the CSI curriculum was primarily achieved by authoring and distributing a number of applications written to allow students to interact with visualizations of key concepts using their handheld computers. Downloadable from the campus wireless network and used in class (large lectu ...

Keywords: PDA, handheld computer, visualization

5 Active Badges--The Next Generation

Igor Bokun, Krzysztof Zielinski

Full text available: 📄 html(22.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

Implementing a software location system as a Linux embedded application results in a robust, efficient and inexpensive system

6 Reflections: VUIs: where the rubber hits the road

Brian Ganninger

Full text available: 📄 html(9.63 KB)   Additional Information: full citation, references, index terms

7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

8 Plug and Play Hardware under Linux

David Cantrell

Full text available: 📄 html(11.97 KB)   Additional Information: full citation, references, index terms

9 Satchel: providing access to any document, any time, anywhere

Mik Lamming, Marge Eldridge, Mike Flynn, Chris Jones, David Pendlebury

Full text available: 📄 pdf(591.29 KB)   Additional Information: full citation, abstract, references, citings, index terms

Current solutions for providing access to electronic documents while away from the office do not meet the special needs of mobile document workers. We describe "Satchel," a system that is designed specifically to support the distinctive features of mobile document

work. Satchel is designed to meet the following five high-level design goals (1) easy access to document services; (2) timely document access; (3) streamlined user interface; (4) ubiquity; and (5)compliance with securi ...

Keywords: document access, document appliance, document processing, information appliance, mobile computing, mobile work

10 Very high performance networking for supercomputing

Marke Clinger
November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing**

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references

NASA Ames has installed a very high bandwidth, 1 gigabit/second, local area network provided by Ultra Network Technologies to study the feasibility and performance of networking supercomputers with minisupercomputers and workstations at the effective bandwidth needed for computing environments of the future. A network display device, which provides interactive graphics over the network, was also installed to study the impact of this new bandwidth on visualization and the impact of interactive gr ...

11 Sci-Mate—a microcomputer system for Online Search and Personal File Management

David Lefkovitz, David Toliver
January 1983 **Proceedings of the 1983 annual conference on Computers : Extending the human resource**

Full text available: pdf(267.98 KB)   Additional Information: full citation, abstract, index terms

Sci-Mate is a microcomputer software package that has two independent, but related, components. One is called the Universal Online Searcher (UOS). It enables a person to search five online host systems using a single menu-driven language and to download records from the search. The second component is called the Personal Data Manager (PDM). It enables the downloaded records to be formatted into fields, stored, updated and text searched in the users' own files on the microcomputer.

12 Notes on constructing a parallel computing platform

Jodie Kok, Elizabeth Elzinga, Greg Wolffe
October 2001 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 1

Full text available: pdf(42.72 KB)   Additional Information: full citation, abstract, references, index terms

Parallel computing is an interesting and important topic that spans several different areas of the computer science curriculum, such as networking, architecture and programming. With the proliferation of open-source software and the availability of inexpensive computer components, it has now become feasible for small colleges and non-research institutions to create parallel computing platforms. In this article we describe the construction of a dedicated computing cluster and the educational bene ...

13 Ad hoc network: A security design for a general purpose, self-organizing, multihop ad hoc wireless network

Thomas S. Messerges, Johnas Cukier, Tom A. M. Kevenaar, Larry Puhl, René Struik, Ed Callaway
October 2003 **Proceedings of the 1st ACM workshop on Security of ad hoc and sensor networks**

Full text available: pdf(353.25 KB)   Additional Information: full citation, abstract, references, index terms

We present a security design for a general purpose, self-organizing, multihop ad hoc wireless network, based on the IEEE 802.15.4 low-rate wireless personal area network standard. The design employs elliptic-curve cryptography and the AES block cipher to supply message integrity and encryption services, key-establishment protocols, and a large set of extended security services, while at the same time meeting the low implementation cost, low power, and high flexibility requirements of ad hoc wire ...

Keywords: 802.15.4, ad hoc networks, security, wireless

14 Desktop publishing on the mainframe: integrating APL2 and Ventura Publisher
Timo Laurmaa
May 1990 **ACM SIGAPL APL Quote Quad , Conference proceedings on APL 90: for the future**, Volume 20 Issue 4

Full text available: pdf(729.12 KB)   Additional Information: full citation, abstract, index terms

> This paper1 describes a facility that enables APL applications to be provided with high-quality output via integration of the mainframe APL 2 environment and a PC desktop publishing system. The facility is a combination of mainframe and PC applications, in which the mainframe transmits data to be efficiently processed in a PC.

15 Best of technical support
Linux Journal Staff
February 2004 **Linux Journal**, Volume 2004 Issue 118

Full text available: html(13.31 KB)   Additional Information: full citation

16 Status report of the graphic standards planning committee
Computer Graphics staff
August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Full text available: pdf(15.01 MB)   Additional Information: full citation, references, citings

17 Service infastructure and network management: MobiDesk: mobile virtual desktop computing
Ricardo A. Baratto, Shaya Potter, Gong Su, Jason Nieh
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Full text available: pdf(580.39 KB)   Additional Information: full citation, abstract, references, index terms

> We present MobiDesk, a mobile virtual desktop computing hosting infrastructure that leverages continued improvements in network speed, cost, and ubiquity to address the complexity, cost, and mobility limitations of today's personal computing infrastructure. MobiDesk transparently virtualizes a user's computing session by abstracting underlying system resources in three key areas: display, operating system, and network. It provides a thin virtualization layer that decouples a user's computing ses ...
>
> **Keywords**: computer utility, network mobility, on-demand computing, process migration, thin-client computing, virtualization

18 Technology to enable learning: Strategic decisions on technology selections for facilitating a network/systems laboratory using real options & total cost of ownership theories
Kimfong Lei, Phillip T. Rawles
October 2003 **Proceeding of the 4th conference on Information technology curriculum**

Full text available: pdf(407.50 KB)   Additional Information: full citation, abstract, references, index terms

> This paper addresses the selection of technologies that provide each student group a dedicated environment on a non-dedicated host machine. The authors investigated different combinations of enabling technologies and approaches, such as virtual machine technology, storage technology, and host operating system. Performance tests were developed and executed to profile the performance of the technologies. The results of this work provide an evaluation of the studied technologies and a selection gui ...

19 <u>Manufacturing resource planning on a PC local area network</u>

H. Clark Kee, Roy L. Post

May 1986 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 16 Issue 4

Full text available: pdf(1.47 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

This paper details a large APL programming project of 12 man years. An integrated software system structured on the principles of MRP (manufacturing resource planning) was implemented by a Bristol-Myers in house team for use in a new manufacturing facility. The system applies off-the-shelf technology in innovative ways, using STSC APL*PLUS/PC as the only programming language, to build a very sophisticated application on IBM/PCs fully sharing data in a secure environment via the N ...

20 <u>Castlewood Orb</u>

Patrick Lambert

December 1999 **Linux Journal**

Full text available: html(7.73 KB)   Additional Information: <u>full citation</u>, <u>index terms</u>

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